

2016 IR Data Questions Document

305(b) Data Questions

When processing the data, the contractor conducted a QA of the data against the hardcopy IR/305(b) report and documented any discrepancies, which are highlighted in the table(s) below. Please let us know if you are okay with the data as is or whether you have additional data to explain these differences. Please note that numbers may not mach due to rounding errors. Also, as we have done in the past, we can always add a disclaimer on the website.

* Report/Report Size listed as a column heading means the size listed in the IR/305(b) report

State:	AZ
Date:	07-28-2017
Contractor:	Attain
State Submittal Information:	
Contact Name:	Dave Guiliano
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Database Format:	ADB
Date Received:	07-24-2017
Database Comment:	Attachments: 1) ADB data created by ADEQ 2) PDF of Arizona 2016 Integrated Report submittal 3) Zipped GIS shapefiles associated with 2016 IR submittal This IR is not approved at this point, however, we're submitting it for inclusion in the new ATTAINS since the IR data for 2012/14 is not available and so that Arizona has a starting point for data in the new ATTAINS that is more recent than 2010. This data is being submitted for the new ATTAINS at the state's request.
State 305b Website:	http://www.azdeq.gov/programs/water-quality-programs/surface-water-monitoring-and-assessments

Questions/Comments:

The following uses are non-supporting but do not have an associated cause. Please either provide one or more causes for each use, or ask us to change the attainment status from non-supporting:

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ASSESSMENT_UNIT_ID	AU_EPA_CATEGORY	USE_DESC
AZ15050301-008B_00	5	AQUATIC AND WILDLIFE (EPHEMERAL) AQUATIC AND WILDLIFE (EFFLUENT DEPENDENT WATER)
AZ15050301-009_00	5	AQUATIC AND WILDLIFE (EPHEMERAL)
AZ15050301-009_00	5	AQUATIC AND WILDLIFE (EPHEMERAL)
AZ15060203-022C_00	5	DOMESTIC WATER SOURCE
AZ15070101-008_00	4A	AQUATIC AND WILDLIFE (EPHEMERAL)
AZ15070101-010_00	4A	AQUATIC AND WILDLIFE (EPHEMERAL)
AZ15080301-090C_00	5	AQUATIC AND WILDLIFE (EPHEMERAL)
AZL15020005-1500_00	5	AQUATIC AND WILDLIFE (EPHEMERAL)
AZL15020005-5000_00	5	AQUATIC AND WILDLIFE (EPHEMERAL)
AZL15060202-1490_00	4A	FISH CONSUMPTION

Rivers and Streams

Total Assessed Waters

- The sizes of Assessed Waters are listed in Table 3-5. Status of Assessed Waters on page 50 of the State Report
- The report size values are under the column Miles in Table 3-5. Status of Assessed Waters
- The Good and All Assessed water category sizes matched the database
- The Impaired report size did not match the database and is listed below

Water Category	Report Size* <u>(as reported by the states in the IR/305(b) report)</u>	Database Size
Impaired	979	1004.103

Individual Use Support

- The Individual Use Support sizes are listed in Table 3-7. Stream Designated Use Support on pages 51 to 52 of the State Report.
 - The values listed below for “Full Support” are taken from section Support Type (by Miles) and column “Attaining”
 - The values listed below for “Not Supporting” are taken from section Support Type (by Miles) and column “Impaired”

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- The Aquatic And Wildlife size in the report was compared to the combined total of Aquatic And Wildlife (Coldwater Fishery), Aquatic And Wildlife (Effluent Dependent Water), Aquatic And Wildlife (Ephemeral), and Aquatic And Wildlife (Warmwater Fishery) sizes found in the database.
- The Body Contact size in the report was compared to the combined total of Full Body Contact and Partial Body Contact sizes found in the database.
- All Use Descriptions sizes in the report for Full Support did not match the sizes in the database and are listed in the table below.
- Aquatic And Wildlife and Fish Consumption sizes in the state report for Not Supporting did not match the sizes in the database and are listed in the table below.

	FULL SUPPORT		NOT SUPPORTING	
<u>Use Description</u>	<u>Report</u>	<u>DB Size</u>	<u>Report</u>	<u>DB Size</u>
Agricultural Irrigation	970	997.69	Match	Match
Agricultural Livestock Watering	1471	1498.205	Match	Match
Aquatic And Wildlife	441	491.249	695	675.939
Domestic Water Source	244	262.223	Match	Match
Fish Consumption	1480	1507.259	127	78.391
Body Contact	973	991.127	Match	Match

Top Causes of Impairment

- The sizes of Causes of Impairment are listed in the table on page 53 of the State Report.
- Escherichia Coli (E. Coli), Zinc, Lead, Beryllium, Chlorine, Arsenic, Iron, Boron, and Manganese sizes in the state report matched the sizes in the database
- All other sizes did not match and are listed in the table below
 - Sedimentation/Siltation was listed in the database and not the state report; therefore, a comparison could not be made
 - SSC was listed in the state report and not the database; therefore, a comparison could not be made

<u>Cause Description</u> <u>(as reported by the states in the IR/305(b) report)</u>	<u>Report Size*</u> <u>(size listed in IR/305(b) report)</u>	<u>Database Size</u>
Selenium	17	36
Copper	34	17
Dissolved Oxygen	6	14
Mercury in Fish Tissue	6	13

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Ammonia, Un-ionized	4	6
Cadmium	10	6
pH	11	4

Top Probable Sources of Impairment

- No sources of impairments

Lakes, Reservoirs and Ponds

Total Assessed Waters

- The sizes of Assessed Waters are listed in Table 3-5. Status of Assessed Waters on page 50 of the State Report
- The report sizes are listed under column Acres in Table 3-5. Status of Assessed Waters
- The Good water category size matched the database
- The Impaired and All Assessed report sizes did not match the database and are listed below

Water Category	Report Size* <u>(as reported by the states in the IR/305(b) report)</u>	Database Size
Impaired	72911	74681.9
All Assessed	73872	75642.9

Individual Use Support

- The Individual Use Support sizes are listed in Table 3-6. Lake Designated Use Support on page 51 of the State Report.
 - The values listed below for “Full Support” are taken from section Support Type (by Acres) and column “Attaining”
 - The values listed below for “Not Supporting” are taken from section Support Type (by Acres) and column “Impaired”
 - The Aquatic And Wildlife size in the report was compared to the combined total of Aquatic And Wildlife (Coldwater Fishery), Aquatic And Wildlife (Effluent Dependent Water), Aquatic And Wildlife (Ephemeral), and Aquatic And Wildlife (Warmwater Fishery) sizes found in the database.
 - The Body Contact size in the report was compared to the combined total of Full Body Contact and Partial Body Contact sizes found in the database.
- All Use Descriptions sizes in the report for Full Support matched the sizes in the database.
- Aquatic And Wildlife sizes in the state report for Not Supporting did not match the sizes in the database and is listed in the table below.

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	NOT SUPPORTING	
<u>Use Description</u>	<u>Report</u>	<u>DB Size</u>
Aquatic And Wildlife	32487	32534.8

Top Causes of Impairment

- The sizes of Causes of Impairment are listed in the table on page 53 of the State Report.
- Mercury in Fish Tissue, Dissolved Oxygen, Nitrogen, Total, Phosphorus, Total, and Escherichia Coli (E. Coli) sizes in the state report matched the sizes in the database
- All other sizes did not match and are listed in the table below
 - Aquatic Plants - Native was listed in the database and not the state report; therefore, a comparison could not be made
 - Nutrients and Chlorophyll was listed in the state report and not the database; therefore, a comparison could not be made

<u>Cause Description</u> <u>(as reported by the states in the</u> <u>IR/305(b) report)</u>	<u>Report Size*</u> <u>(size listed in</u> <u>IR/305(b) report)</u>	<u>Database Size</u>
Selenium	1	11
pH	0	8

Top Probable Sources of Impairment

- No sources of impairments

303(d) General Information

State	AZ
Cycle	2016
Data source and type	ADB
Date received	07-24-2017
# of 303(d)-listed waters	74
# of 303(d)-listed water/cause combinations	106
# of 303(d) waters reconciled with previous cycle	58
# of unreconciled 303(d) waters from previous cycle	29

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# of 303(d) causes reconciled with previous cycle	69
# of unreconciled 303(d) causes from previous cycle	64
# of delisted 303(d) causes reported	25
# of delisted 303(d) causes found in ATAINS	12
# of delisted 303(d) causes “possible match” in ATAINS	0
# of delisted 303(d) causes not found in ATAINS	13

Hardcopy 303(d) Review

Location of state 303(d) report	APPENDIX C ARIZONA’S 2016 IMPAIRED WATERS on page 561
Compare format of List IDs – do they align with past cycle? Does there seem to be a lot of resegmentation?	The IDs align with the previous cycle
Spot check of 303(d) waters for completeness (verify that all causes of impairment show up)	Checked 20 of the listed Water IDs in Appendix C of the State Report. The cycle first listed in state report for listed water ID “15060106B-0410” is 2004 in the state report, whereas the database states 2010. (refer to the “303(d) Impairments” tab in the review spreadsheet for more information).
Is the total # of unique 303(d)-listed waters reported and does it match submitted data?	Not reported in that state report
Is the total # of 303(d)-listed AU/cause combinations reported and does it match submitted data?	Not reported in that state report